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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		See New See of	om				
21021Y PCT	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT)						
International application No.	International filing date (day/month/year)		Priority date (day/month/year)				
PCT/US03/00813	13 January 2003 (13.01.2003)		17 January 2002 (17.01.2002)				
International Patent Classification (IPC)	or national classification and IPC						
IPC(7): CO7D 221/02; A61K 31/4353 and US Cl.: 546/183; 514/299							
Applicant							
MERCK & CO., INC							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 3 sheets.							
·							
3. This report contains indica	tions relating to the following	tems:					
I Basis of the report							
II Priority							
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability						
							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand	Date	of completion o	of this report				
05-August 2003 (05.08.2003) (25. AU 9 2003)		tember 2003 (22	_				
Name and mailing address of the IPEA/US			.05.2000,				
Mail Stop PCT, Attn: IPEA/US	Autho	ized officer	D. Roberts for				
Commissioner for Patents P.O. Box 1450	Golan	M Shameem					
Alexandria, Virginia 223 13-1450 Facsimile No. (703)305-3230	Teleph	one No. (703) 3	08-1235				
	PCT/IPEA/409 (cover sheet)(July 1998)						





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/US03/00813

I.	Basi	is of the report					
i.	With	regard to the elements of the international application:*					
	X	the international application as originally filed. the description:					
		pages 1-114 as originally filed					
		pages NONE , filed with the demand pages NONE , filed with the letter of					
	\square						
		the claims:					
		pages 115-141 , as originally filed pages NONE , as amended (together with any statement) under Article 19					
		pages NONE , filed with the demand					
		pages NONE, filed with the letter of					
		the drawings:					
		pages NONE, as originally filed					
		pages NONE , filed with the demand					
		pages NONE , filed with the letter of					
		the sequence listing part of the description:					
		pages NONE, as originally filed pages NONE, filed with the demand					
		pages NONE , filed with the letter of .					
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the					
	Thes	page in which the international application was filed, unless otherwise indicated under this item. The elements were available or furnished to this Authority in the following language which is:					
	\square	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
	Щ	the language of publication of the international application (under Rule 48.3(b)).					
	Ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
		filed together with the international application in computer readable form.					
	Ц	furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.	\boxtimes	The amendments have resulted in the cancellation of:					
		the description, pages None					
		the claims, Nos. None					
		the drawings, sheets/fig None					
5.	Ш	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
this	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.						





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/00813

 V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 						
1. STATEMENT						
Novelty (N)	Claims	1-23	YES			
	Claims	NONE	NO			
Inventive Step (IS)	Claims	1-23	YES			
	Claims	NONE	NO			
Industrial Applicability (IA)	Claims	1-23	YES			
	Claims	NONE	NO			
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2. CITATIONS AND EXPLANATIONS

The invention relates to hydroxynaphthyridinone carboxamides compounds that are useful as inhibitors of HIV integrase and inhibitors of HIV replication, and therefore, delaying the onset of, or preventing AIDS. Considering the prior art cited (WO 96/22990 and US 5,801,183) in the International search report claims 1-23 of this invention are novel. The closest prior art of record is Keana et al (US 5,801,183). Claims 1-23 meet the criteria set out in PCT rticle 33(2)-(4), because the prior art do not teach or fairly suggest the carboxamides compounds described in this application.

Form PCT/IPEA/409 (Box V) (July 1998)